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The prior patent discloses, in Embodiment 35, a method to change a setting content of an address management table (conversion table) of within a network node unit (access control apparatus) from a user's IP terminal. This will be explained with reference to Fig. 3.

An IP terminal unit 23-1 sends an external IP packet (ICS user frame) containing a domain name "c5. b2. a1" to a conversion table server 23-2 (Step 23-4). The conversion table server 23-2 makes an inquiry to the domain name server 23-3 (Step 23-5). The domain name server 23-3 searches for and acquires an internal address (ICS network address) and external IP address (ICS user address) corresponding to the domain name "c5. b2. a1" (Step 23-6). Then, this is sent back to the conversion table server 23-2 (Step 23-7). The conversion table server 23-2 writes it into a conversion table (Step 23-8), for report to the IP terminal 23-1 (Step 23-9).

<<Method for Acquiring IP Address by Telephone Number as Domain Name>>

Next, Embodiment 36 of the prior patent discloses that IP packets (ICS user frames) can be communicated with the other end of communication by using a telephone number as a domain name wherein the IP packet stores therein a digitalized voice thereby enabling public communication by the telephone. An address management server (conversion table server) converts an input domain name into an external IP address (ICS user address) to send it back, and registers an internal address (ICS network address) in an

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address management table(conversion table) of the network node unit(access control apparatus).

A telephone number "1234-5678" inputted to a telephone set is delivered to a conversion table server via a telephone number input section of the telephone set. The conversion table server 24-4(Fig. 4) makes an inquiry to a plurality of domain name servers 24-1, 24-2, 24-3 one after another(24-6 to 24-11 in Fig. 4) on the basis of the received telephone number "1234-5678", and acquires an internal address and external IP address of a telephone set at the other end of communication upon considering the telephone number "1234-5678" as a domain name. Next, the conversion table server 24-4 prepares a new item to be added to the address management table(conversion table) of within the network node unit by using acquired two addresses, and sends it to a requesting telephone set. Also, the network node unit uses the new item of the address management table as a new element of the address management table in the network node unit.